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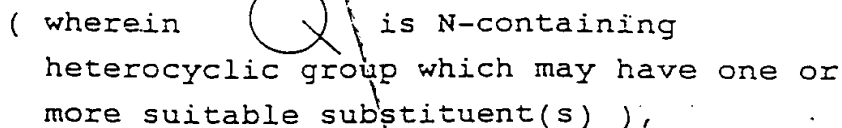
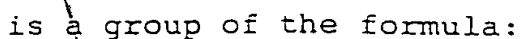
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A¹ is lower alkylene, lower alkanyl-ylidene or lower alkenylene, each of which may have one or more suitable substituent(s),

A³ is lower alkylene which may have one or more suitable substituent(s),



Y is NH_2

Z is

(wherein R^3 is hydrogen or lower alkyl),

l, m and n are each the same or different an integer of 0 or 1, and a pharmaceutically acceptable salt thereof.

2. A compound of claim 1,

wherein R¹ is 3 to 8 membered cycloalkyl containing 1 to 3 nitrogen atom(s) which may have one or more suitable substituent(s),

R² is carboxy or esterified carboxy,

A¹ is lower alkylene, lower alkanyl-ylidene or lower alkenylene, each of which may have one or more suitable substituent(s),

A² is lower alkylene,

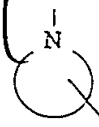
A³ is lower alkylene which may have one or more suitable substituent(s),

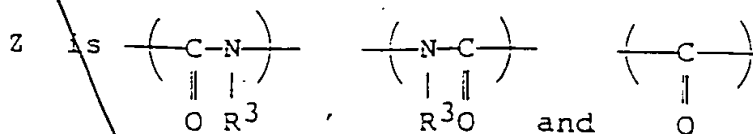
is saturated 3 to 8 membered heteromonocyclic group containing 1 to 4 nitrogen atom(s) which may have one or more suitable substituent(s), unsaturated condensed heterocyclic group containing 1 to 4 nitrogen atom(s) which may have one or more suitable substituent(s) or saturated 3 to 8-membered heteromonocyclic group containing 1 to 2 oxygen atom(s) and 1 to 3 nitrogen atom(s) which may have one or more suitable substituent(s),

X is O, S, or NH,

Y is NH,

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(wherein R^3 is hydrogen or lower alkyl),

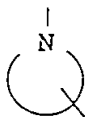
l is an integer of 0 or 1,

m is an integer of 0 or 1,

n is an integer of 0 or 1.

3. A compound of claim 2,

wherein R^1 is piperidyl which may have 1 or 2 oxo or [5-(lower)alkyl-2-oxo-1,3-dioxol-4-yl](lower)alkyl,



is piperidyl, morpholinyl, tetrahydroquinolyl or pyrrolydinyll,

A^3 is lower alkylene which may have 1 to 3 suitable substituent(s) selected from the group consisting of (C1-C6)alkyl; (C2-C6)alkenyl; (C2-C6)alkynyl; phenyl; phenyl(C1-C6)alkyl; phenyl(C1-C6)alkyl having 1 to 4 (C1-C6)alkoxy, halo(C1-C6)alkyl or (C1-C6)alkylene dioxy; (C1-C6)alkyl having unsaturated condensed heterocyclic group containing 1 to 4 nitrogen atom(s); cyano; amino; protected amino; and phenyl(C1-C6)alkylcarbamoyl;

R^2 , R^3 , A^1 , A^2 , X , Y or Z are each as defined in claim 2,

l is an integer of 0,

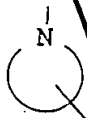
m is an integer of 0,

n is an integer of 0.

4. A compound of claim 3,

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wherein R¹ is piperidyl which may have 1 or 2 oxo
or [5-(lower)alkyl-2-oxo-1,3-dioxol-
4-yl](lower)alkyl,



is piperidyl, morpholinyl,
tetrahydroquinolyl or
pyrrolidinyl,

10 A³ is lower alkylene which may have 1 to 3
suitable substituent(s) selected from
the group consisting of (C1-C6)alkyl;
(C2-C6)alkenyl; (C2-C6)alkynyl;
phenyl; phenyl(C1-C6)alkyl; phenyl(C1-
15 C6)alkyl having 1 to 4 (C1-C6)alkoxy,
halo(C1-C6)alkyl or (C1-C6)alkylene
dioxy; (C1-C6)alkyl having unsaturated
condensed heterocyclic group
containing 1 to 4 nitrogen atom(s);
cyano; amino; (C1-C6)alkanoylamino;
20 aroylamino which may have 1 to 3
hydroxy; (C1-C6)alkoxy, halogen or
phenyl; cyclo(C3-
C6)alkylcarbonylamino; (C1-
C6)alkoxy(C1-C6)alkylcarbonylamino;
25 (C2-C6)carbonylamino; (C1-
C6)alkylsulfonylamino;
phenylsulfonylamino; and phenyl(C1-
C6)alkylcarbonyl;

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30 R², R³, A¹, A², X, Y or Z are each as defined
in claim 3,

l is an integer of 0,
m is an integer of 0,
n is an integer of 0.

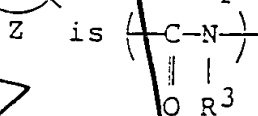
35 5. A compound of claim 4,
wherein R¹ is piperidyl,

A¹ is lower alkylene or lower alkanyl-
ylidene,

A³ is lower alkylene which may have lower
alkyl, lower alkynyl or lower
alkanoylamino,



is piperidyl,

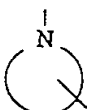


R², R³, A², Y, l, m and n are each as defined in
claim 4.

6. A compound of claim 5,
wherein R³ is hydrogen,

A¹ is lower alkylene,

A³ is lower alkylene having lower
alkanoylamino,

R¹, A², , X, Y and Z are each as
defined in claim 5

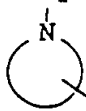
7. N-[(R)-1-{3-(4-piperidyl)propionyl}-3-
piperidylcarbonyl]-2(S)-acetylamino-β-alanine
or its hydrochloride

8. A compound of claim 5,
wherein R³ is hydrogen,

A¹ is lower alkylene,

A³ is lower alkylene having lower
alkynyl,

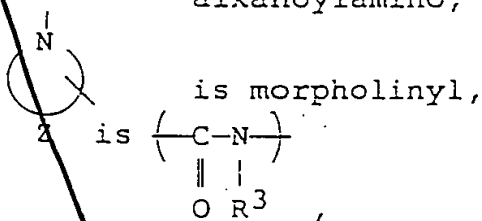
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R¹, R², A², , X, Y, Z, l, m and n are each
as defined in claim 5.

9. N-[(R)-1-{3-(4-piperidyl)propionyl}-3-piperidylcarbonyl]-3(S)-ethynyl-β-alanine

10. A compound of claim 4,
 wherein R¹ is piperidyl,
 A¹ is lower alkylene or lower alkanylylidene,
 A³ is lower alkylene which may have lower alkyl, lower alkynyl or lower alkanoylamino,

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R², R³, A², Y, l, m and n are each as defined in claim 4.

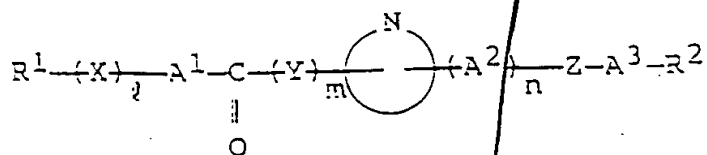
11. A compound of claim 5,
 wherein R³ is hydrogen,
 A¹ is lower alkylene,
 A³ is lower alkylene,

R¹, A², $\begin{array}{c} \text{N} \\ \diagup \quad \diagdown \\ \text{C} - \text{N} \\ \parallel \quad | \\ \text{O} \quad \text{R}^3 \end{array}$, X, Y and Z are each as defined in claim 10.

12. N-[4-{3-(4-piperidyl)propionyl}-2-morpholinylcarbonyl]-β-alanine
 or its hydrochloride

13. A process for preparing a compound of the formula :

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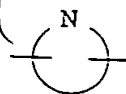
wherein R^1 is N-containing cycloalkyl which may have one or more suitable substituent(s),

R^2 is carboxy or protected carboxy,

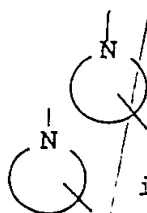
A^1 is lower alkylene, lower alkanyl-ylidene or lower alkenylene, each of which may have one or more suitable substituent(s),

A^2 is lower alkylene,

A^3 is lower alkylene which may have one or more suitable substituent(s),



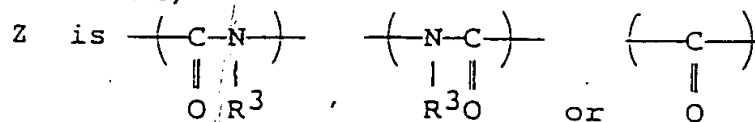
is a group of the formula:



(wherein $\overset{\overset{N}{\circlearrowleft}}{\quad}$ is N-containing heterocyclic group which may have one or more suitable substituent(s)),

X is O, S or NH,

Y is NH,



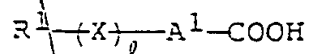
(wherein R^3 is hydrogen or lower alkyl),

l , m and n are each the same or different an integer of 0 or 1,

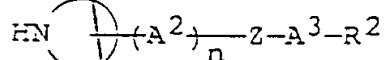
and a salt thereof, which comprises

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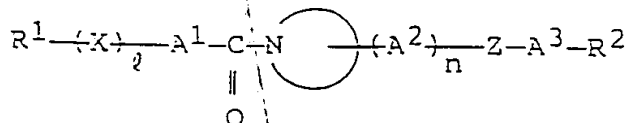
(i) reacting a compound of the formula :



wherein R^1 , A^1 , X and ℓ are each as defined above,
or its reactive derivative at the carboxy group
or a salt thereof, with a compound of the formula :

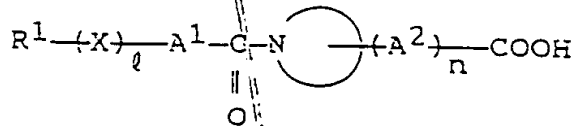


wherein R^2 , A^2 , A^3 , $HN \bigcirc$, Z and n are each as
defined above,
or its reactive derivative at the amino group or a
salt thereof, to give a compound of the formula :

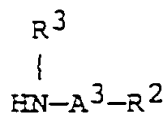


wherein R^1 , R^2 , A^1 , A^2 , A^3 , $-N \bigcirc -$, X , Z , ℓ and n
are each as defined above,
or a salt thereof, or

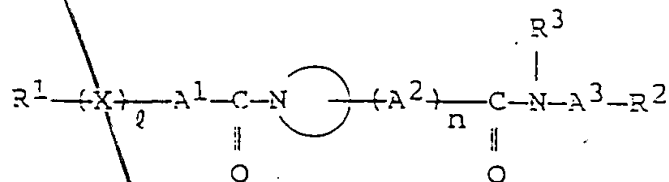
(ii) reacting a compound of the formula :



wherein R^1 , A^1 , A^2 , $-N \bigcirc -$, X , ℓ and n are each as
defined above,
or its reactive derivative at the carboxy group
or a salt thereof, with a compound of the formula :

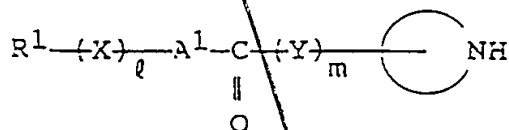


wherein R^2 , R^3 and A^3 are each as defined above, or its reactive derivative at the amino group or a salt thereof, to give a compound of the formula :

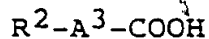


wherein R^1 , R^2 , R^3 , A^1 , A^2 , A^3 , $-N \text{---}$, X , ℓ and n are each as defined above, or a salt thereof, or

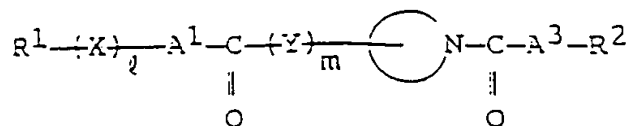
(iii) reacting a compound of the formula :



wherein R^1 , A^1 , NH , X , Y , ℓ and m are each as defined above, or its reactive derivative at the amino group or a salt thereof, with a compound of the formula :

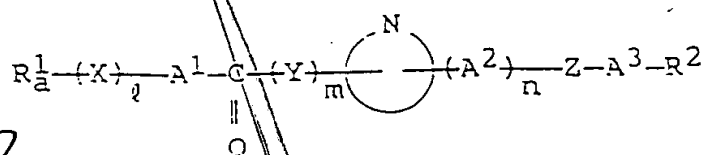


wherein R^2 and A^3 are each as defined above, or its reactive derivative at the carboxy group or a salt thereof, to give a compound of the formula :

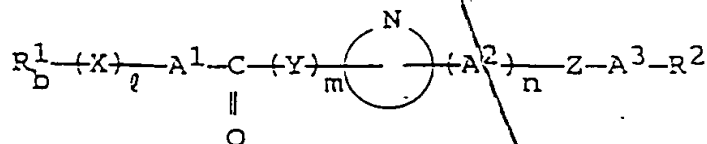


wherein R^1 , R^2 , A^1 , A^3 , $\text{N}(\text{C})$, X , Y , ℓ and m are each as defined above, or a salt thereof, or

(iv) subjecting a compound of the formula :



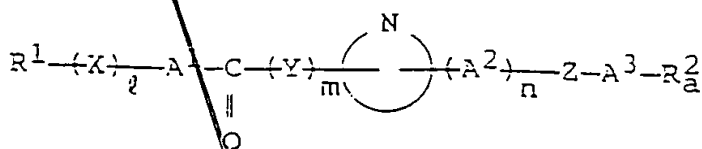
wherein R^2 , A^1 , A^3 , $\text{N}(\text{C})$, X , Y , Z , ℓ , m and n are each as defined above, and R^1_a is N-containing cycloalkyl having amino protective group, which may have one or more suitable substituent(s), or a salt thereof, to elimination reaction of the amino protective group, to give a compound of the formula :



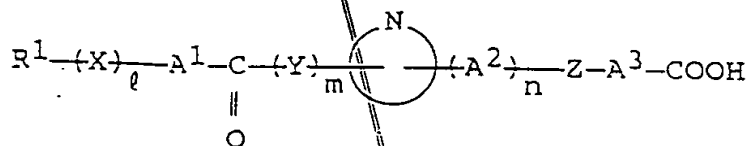
wherein R^2 , A^1 , A^2 , A^3 , $\text{N}(\text{C})$, X , Y , Z , ℓ , m and n are each as defined above, and

R^1_b is N-containing cycloalkyl which
may have one or more suitable
substituent(s),
or a salt thereof, or

(v) subjecting a compound of the formula :

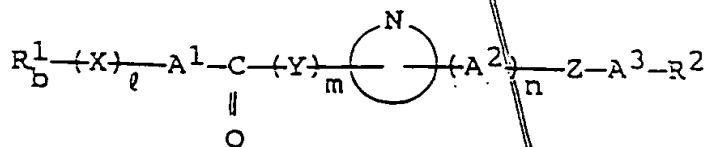


wherein R^1 , A^1 , A^2 , A^3 , $\overset{\text{N}}{\text{---}}$, X , Y , Z , ℓ , m and n
are each as defined above, and
 R^2_a is protected carboxy,
or a salt thereof, to elimination reaction of carboxy
protective group, to give a compound of the formula :



wherein R^1 , A^1 , A^2 , A^3 , $\overset{\text{N}}{\text{---}}$, X , Y , Z , ℓ , m and n
are each as defined above, or a salt
thereof, or

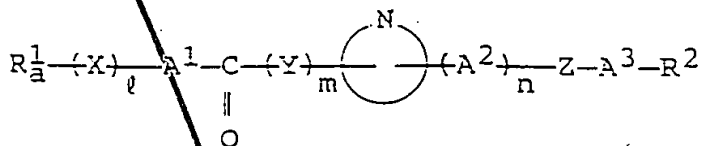
(vi) subjecting a compound of the formula :



wherein R^2 , A^1 , A^2 , A^3 , $\text{---}\text{N}\text{---}$, X , Y , Z , ℓ , m and n are each as defined above, and

R_D^1 is N-containing cycloalkyl which may have one or more suitable substituent(s),

or a salt thereof, to protecting reaction of amino, to give a compound of the formula :

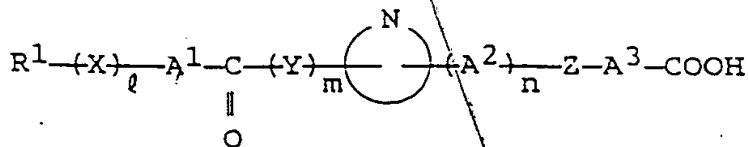


wherein R^2 , A^1 , A^2 , A^3 , $\text{---}\text{N}\text{---}$, X , Y , Z , ℓ , m and n are each as defined above, and

R_A^1 is N-containing cycloalkyl having amino protecting group, which may have one or more suitable substituent(s),

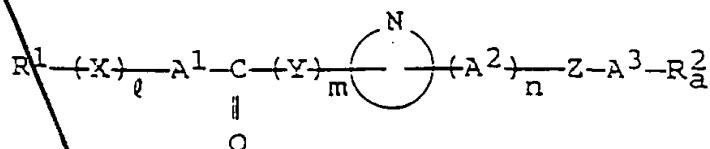
or a salt thereof, or

(Vii) subjecting a compound of the formula :



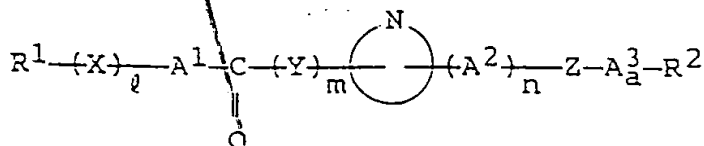
wherein R^1 , A^1 , A^2 , A^3 , $\text{---}\text{N}\text{---}$, X , Y , Z , ℓ , m and n are each as defined above,

or its reactive derivative at the carboxy group or a salt thereof, to protecting reaction of the carboxy, to give a compound of the formula :



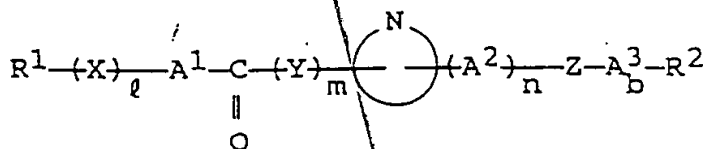
wherein R^1 , A^1 , A^2 , A^3 , $\overset{\text{N}}{\text{---}}$, X , Y , Z , ℓ , m and n are each as defined above, and R^2_a is protected carboxy, or a salt thereof, or

(viii) subjecting a compound of the formula :



wherein R^1 , R^2 , A^1 , A^2 , $\overset{\text{N}}{\text{---}}$, X , Y , Z , ℓ , m and n are each as defined above, and

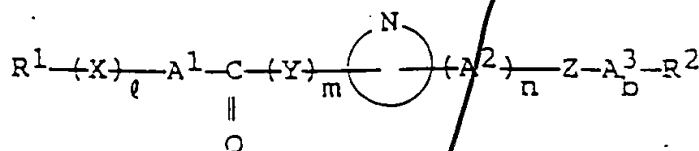
A^3 is lower alkylene having protected amino or a salt thereof, to elimination reaction of amino protective group, to give a compound of the formula :



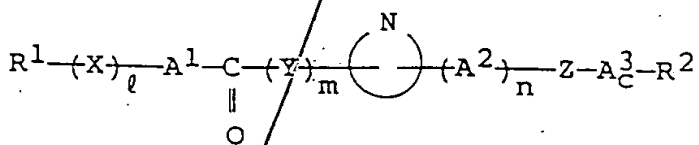
wherein R^1 , R^2 , A^1 , A^2 , $\overset{\text{N}}{\text{---}}$, X , Y , Z , ℓ , m and n are each as defined above, and

A^3_b is lower alkylene having amino or a salt thereof, or

(ix) subjecting a compound of the formula :



5 wherein R^1 , R^2 , A^1 , A^2 , $\overset{\overset{N}{\curvearrowright}}{(\quad)}$, X , Y , Z , ℓ , m and n are each as defined above, and A^3_D is lower alkylene having amino, or a salt thereof, to acylation reaction of amino, to give a compound of formula :



15 wherein R^1 , R^2 , A^1 , A^2 , $\overset{\overset{N}{\curvearrowright}}{(\quad)}$, X , Y , Z , ℓ , m and n are each as defined above, and A^3_C is lower alkylene having acylamino, or a salt thereof.

14. A pharmaceutical composition which comprises, as an active ingredient, a compound of claim 1 or a pharmaceutically acceptable salt thereof in admixture with pharmaceutically acceptable carriers or excipients.

15. Use of a compound of claim 1 or a pharmaceutically acceptable salt thereof for the manufacture of a medicament.

16. A compound of claim 1 or a pharmaceutically acceptable salt thereof for use as a medicament.

17. A method for the prevention and/or the treatment of

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diseases caused by thrombus formation; restenosis or reocclusion; the thrombus formation in case of vascular surgery, valve replacement, extracorporeal circulation or transplantation; disseminated intravascular coagulation; thrombotic thrombocytopenic; essential thrombocytosis; inflammation; immune diseases; or metastasis; or for the adjuvant therapy with thrombolytic drug or anticoagulant; which comprises administering a compound of claim 1 or a pharmaceutically acceptable salt thereof to a human being or an animal.

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